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Projects and experience:

eFerret

December 2017 – present

eFerret is a native Android app and modern web app (eFerret.io) for finding great deals and rare items on eBay. Utilizing live data from the eBay API, it notifies users of interesting items within seconds after they are posted.

eFerret's web frontend is open source:

<https://github.com/KunstDerFuge/eFerret-web-frontend>

- ❖ Native Android frontend (Java)
- ❖ Web frontend in React + Typescript
- ❖ Original REST API backend, Flask + MySQL (Python)
- ❖ Rewrote backend in March 2020, Django + Postgres + Django Rest Framework (Python)
- Backend technology switch happened in one seamless transition after writing a comprehensive integration test suite 😊
- Uses Celery / Redis task scheduling for push notification processing
- 1000+ installs on Google Play
- ~ 75 daily active users, 250 monthly
- Drives over \$450,000 in sales to eBay every year
- Processes ~1 million eBay API requests per day

Typometry.io

October 2018 – present

Typometry is a web app for improving typing speed at all levels by assessing typing characteristics and seamlessly delivering personalized exercises.

Typometry is fully open source:

<https://github.com/KunstDerFuge/typometry>

- ❖ React frontend (JavaScript)
- ❖ Django + Postgres backend (Python)

Freelance work

April 2018 – present

"Project Heatwave" - A data-driven analysis of global warming using atmospheric radiation emission data from NASA's AIRS program. This project gathers and analyzes a large dataset from the NASA AIRS satellite using Pandas and Numpy.

Heatwave is a fully open source project by Chris Rentsch:

<https://github.com/rentcp/Heatwave>

- Implemented major feature additions and bug fixes over the course of 14 months
- Resulted in several rehires by the client for additional features, fixes, and consultation.

Relevant Coursework:

- Problem Solving and Program Design using C++
- Introduction to Data Structures

Other Skills:

- Proficient with Object Oriented software development in C++ and Python
- Experienced with administrating Linux systems and servers via the command line (Bash, SSH)
- Experienced with version control and remote deployment using Git
- 10 years experience using Linux as a primary operating system (Ubuntu, Fedora)
- Management and maintenance of Linux cloud servers
- Continuous deployment via Git hooks